

ELECTRONIC TECHNIQUES FOR ANALYTE DETECTION

ABSTRACT OF THE DISCLOSURE

Techniques are used to detect and identify analytes. Techniques are used to
5 fabricate and manufacture sensors to detect analytes. An analyte (1810) is sensed by sensors
(1820) that output electrical signals in response to the analyte. The electrical signals are
preprocessed (1830) by filtering and amplification. In an embodiment, this preprocessing
includes adapting the sensor and electronics to the environment in which the analyte exists. The
electrical signals are further processed (1840) to classify and identify the analyte, which may be
10 by a neural network.

PA 3196293 v1

10054550 011802